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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/699,100	10/30/2003	Hilal Ezzeddine	2269-5-3	2659
996 GRAYBEAL JA	7590 09/11/200 ACKSON LLP	EXAMINER		
155 - 108TH A SUITE 350	VENUE NE	NGUYEN, TUYEN T		
BELLEVUE, W	VA 98004-5973		ART UNIT	PAPER NUMBER
			2832	
			MAIL DATE	DELIVERY MODE
			09/11/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/699,100	EZZEDDINE, HILAL		
Office Action Summary	Examiner	Art Unit		
	TUYEN T. NGUYEN	2832		
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perion.  - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be od will apply and will expire SIX (6) MONTHS fro cute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. NED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 30 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ TI 3) ☐ Since this application is in condition for allow closed in accordance with the practice unde	nis action is non-final. vance except for formal matters, p			
Disposition of Claims				
4) ☐ Claim(s) 1-12 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 and 3-12 is/are rejected. 7) ☐ Claim(s) 2 is/are objected to. 8) ☐ Claim(s) are subject to restriction and Application Papers 9) ☐ The specification is objected to by the Examination The specification The spec	rawn from consideration.  I/or election requirement.  ner.			
10) ☐ The drawing(s) filed on is/are: a) ☐ a  Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the control of the correct	ne drawing(s) be held in abeyance. Section is required if the drawing(s) is c	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:			

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4, and 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art of figure 2 [AAPA] Masahiro et al. [JP 61-266069.]

AAPA discloses a transformer comprising:

- a common mode winding structure including first and second coils [5, 6]; and
- a differential mode winding structure including first and second coils [7, 8] electrically coupled with the common mode winding structure.

wherein the coils having the same length of  $\lambda/4$ .

AAPA discloses the instant claimed invention except for a capacitor.

Misahiro et al. discloses a mode-switching transformer [2] having only one capacitor [30, 40] connected in series with at least one coil/winding [21, 23.]

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to include a capacitor in series with the common mode winding structure of AAPA, as suggested by Misahiro et al., for the purpose of reducing common mode noise.

Regarding claim 4, the specific location of the capacitor would have been an obvious design consideration based on the intended application/environment use.

Regarding claims 6 and 9-10, the specific frequency of the transformer would have been an obvious design consideration based on the intended application/environment use.

Claims 3, 5 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over AAPA in view of Misahiro et al. as applied to claim 1 above, and further in view of Waffenschmidt [US6,529,363.]

AAPA in view of Misahiro et al. discloses the instant claimed invention except for the specific of the coil/winding.

Waffenschmidt discloses a multi-layered transformer comprising at least one coil formed of a plurality of conductive layers [1, 2, 3, 4, 5, 6] with insulating layer [8] disposed between the conductive layers and a capacitor [9] coupled to the at least one coil.

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to use the coil/winding design of Waffenschmidt in AAPA, as modified, for the purpose of simplying

### Response to Arguments

Applicant's arguments with respect to claims 1 and 3-12 have been considered but are moot in view of the new ground(s) of rejection.

## Allowable Subject Matter

Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996.

The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/TUYEN T NGUYEN/

Primary Examiner, Art Unit 2832